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11 pages.

AL-700519-69- 001
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25X1

[redacted]

MONTHLY REPORT

1 June through 30 June 1969

30 June 1969

Declass Review by NGA.

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[redacted]

25X1

Monthly Report

PAR 249

30 Jun 69

25X1 SUBJECT: [redacted] Precision Enlarger Prototype (BPE) Operational Improvements and Maintenance

TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's

25X1 facility for one [redacted] Precision Enlarger (BPE) and three* 10-20-40X Enlargers.

DISCUSSION

2. Contractor personnel visited the customer's facility during the week beginning 9 June 1969 to perform the required monthly preventive maintenance (PM) on the BPE, and two-month PM on the four* 10-20-40X Enlargers. The attached check lists show the work performed.

3. During the check on the BPE, it was observed that the actuator on the left limit switch for the vertical transport drive was broken. As a replacement for this type of item was not readily available in the area, a new one will be delivered and installed on the next trip.

4. A film transport problem was encountered on the S/N 113 10-20-40X Enlarger. As this problem was caused by a defective Thyratron Tube, the tube was replaced using customer spares. Replacement of the tube eliminated the transport problem. Check of the other 10-20-40X Enlargers indicated satisfactory operation.

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* Although the Task/Problem specifies preventive maintenance on three 10-20-40X Enlargers, the contractor regularly services four enlargers on the basis of verbal request. The customer has stated that he does not consider it necessary to revise the wording of PAR 249 at this time.

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PLANNED ACTIVITY

5. This visit completed effort under PAR 249. When contractor personnel visit the customer's facility during the week beginning 14 July 1969 to perform monthly PM on the BPE, effort will be under PAR 249A.

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PAR 249
30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

25X1

[ ] PRECISION ENLARGER

25X1

Assigned to: [ ]

√	Item	Description
		Daily Interval
√	1	Check the four indicator lamps on the sub-control panel.
√	2.1	Check closed-negative-gate interlock.
√	2.2	Check interlock that causes vertical transport slow speed.
√	2.3	Check interlock that disables negative transport after fluid injection.
√	2.4	Check operation of microswitch that functions when manual-film-movement knob is pushed in.
√	3.1	Check the indicator lamps for the two attenuator banks of the easel photometer.
	3.2	Check the meter scale illuminator lamp of the easel photometer.
	3.3	Check the antifatigue lamp in photo-multiplier tube housing.
	4	Clean the glass plates of the negative gate.
		One-Week Interval
	1	Vacuum-clean the enlarger.
	2	Check, and if necessary, clean the objective lenses and all glass filters.
	3	Vacuum-clean the front surface of the easel.
√	4	Check the fiber optics for broken fibers.

√	Item	Description
		One-Month Interval
√	1	Wax the steel rails of the lens ramp and of the easel.
√	2	Install new air filter in lamphouse.
√	3	Clean the nylon brushes of the fluid removal system.
√	4	Check all tubing and hoses for cracks and air leakage.
√	5	Check and, if necessary, clean the lenses of the condenser lens assemblies.
		Six-Month Interval
	1.1	Make a photographic check on all six matching sets of objective and condenser lens assemblies.
	1.2	Be sure that film is tracking properly in both directions on the negative transport system.
	2	Check the timing belts of the film transport system, of the vertical drive system, and of the easel drive assembly for wear.

Checked by: [ ] Date 9 June 69 25X1

Changed 2/68

REMARKS:

The actuator on the left limit switch for the vertical transport was broken; a new one will be replaced on the next trip.

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PAR 249
30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

25X1

Assigned To: _____

Date: _____

Machine Serial N

✔	Item	Description
	1	Film Transport
✓	1.1	Static Removal Unit
✓	1.2	Guide Roller Flanges
✓	1.3	Air Knives
✓	1.4	Belts and Pulleys
✓	1.5	Lubricate Bearings
	2	Easel and Stencil Assembly
✓	2.1	Easel
NA	2.2	Air Pressure System
	3	Illuminator
✓	3.1	Glass
✓	3.2	Lamps
✓	4	Negative Gate Interlock
✓	5	Lenses
✓	6	Stripper Plate
	7	Air Pressure System
✓	7.1	Air Lines
NA	7.2	Compressor Control
NA	7.3	Relief Valve
✓	7.4	Regulator
NA	7.5	Filter-Compressor
NA	7.6	Drain Storage Tank

✔	Item	Description
	8	Vacuum Pump Assembly
NA	8.1	Hoses and Couplings
NA	8.2	Pump
NA	8.3	Oil Level
	9	Lamp House Assembly
✓	9.1	Housing
✓	9.2	Filter (Photographic)
✓	9.3	Light Leaks
✓	9.4	Lamp House Blower
	10	Immersion System
✓	10.1	Ejectors
✓	10.2	Hoses and Couplings
✓	10.3	Blower
✓	10.4	Fluid Level
✓	11	Lamp House Control
✓	12	Analyzer
	13	Photo Check
	13.1	Resolution
	13.2	Uniformity
	14	General Inspection

25X1

Form No. MS-103
March 26, 1966

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PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned To:
Date: _____
Machine Seri

25X1

✔	Item	Description
	1	Film Transport
✓	1.1	Static Removal Unit
✓	1.2	Guide Roller Flanges
✓	1.3	Air Knives
✓	1.4	Belts and Pulleys
✓	1.5	Lubricate Bearings
	2	Easel and Stencil Assembly
✓	2.1	Easel
NA	2.2	Air Pressure System
	3	Illuminator
✓	3.1	Glass
✓	3.2	Lamps
✓	4	Negative Gate Interlock
✓	5	Lenses
✓	6	Stripper Plate
	7	Air Pressure System
✓	7.1	Air Lines
NA	7.2	Compressor Control
NA	7.3	Relief Valve
✓	7.4	Regulator
NA	7.5	Filter-Compressor
NA	7.6	Drain Storage Tank

✔	Item	Description
	8	Vacuum Pump Assembly
NA	8.1	Hoses and Couplings
NA	8.2	Pump
NA	8.3	Oil Level
	9	Lamp House Assembly
✓	9.1	Housing
✓	9.2	Filter (Photographic)
✓	9.3	Light Leaks
✓	9.4	Lamp House Blower
	10	Immersion System
✓	10.1	Ejectors
✓	10.2	Hoses and Couplings
✓	10.3	Blower
✓	10.4	Fluid Level
✓	11	Lamp House Control
✓	12	Analyzer
	13	Photo Check
	13.1	Resolution
	13.2	Uniformity
	14	General Inspection

25X1

REMARKS:

Defective Thyratron tube. After tube was replaced, film transport operated satisfactorily.

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PAR 249
30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

25X1

Assigned To: _____

Date: _____

Machine Serial

✔	Item	Description
	1	Film Transport
✓	1.1	Static Removal Unit
✓	1.2	Guide Roller Flanges
✓	1.3	Air Knives
✓	1.4	Belts and Pulleys
✓	1.5	Lubricate Bearings
	2	Easel and Stencil Assembly
✓	2.1	Easel
NA	2.2	Air Pressure System
	3	Illuminator
✓	3.1	Glass
✓	3.2	Lamps
✓	4	Negative Gate Interlock
✓	5	Lenses
✓	6	Stripper Plate
	7	Air Pressure System
✓	7.1	Air Lines
NA	7.2	Compressor Control
NA	7.3	Relief Valve
✓	7.4	Regulator
NA	7.5	Filter-Compressor
NA	7.6	Drain Storage Tank

✔	Item	Description
	8	Vacuum Pump Assembly
NA	8.1	Hoses and Couplings
NA	8.2	Pump
NA	8.3	Oil Level
	9	Lamp House Assembly
✓	9.1	Housing
✓	9.2	Filter (Photographic)
✓	9.3	Light Leaks
✓	9.4	Lamp House Blower
	10	Immersion System
✓	10.1	Ejectors
✓	10.2	Hoses and Couplings
✓	10.3	Blower
✓	10.4	Fluid Level
✓	11	Lamp House Control
✓	12	Analyzer
	13	Photo Check
	13.1	Resolution
	13.2	Uniformity
	14	General Inspection

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PAR 249
30 Jun 69

PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST

TWO-MONTH INTERVAL

PRECISION ENLARGER, 10-20-40X

Assigned
Date:
Machine

25X1

✔	Item	Description
	1	Film Transport
✓	1.1	Static Removal Unit
✓	1.2	Guide Roller Flanges
✓	1.3	Air Knives
✓	1.4	Belts and Pulleys
✓	1.5	Lubricate Bearings
	2	Easel and Stencil Assembly
✓	2.1	Easel
NA	2.2	Air Pressure System
	3	Illuminator
✓	3.1	Glass
✓	3.2	Lamps
✓	4	Negative Gate Interlock
✓	5	Lenses
✓	6	Stripper Plate
	7	Air Pressure System
✓	7.1	Air Lines
NA	7.2	Compressor Control
NA	7.3	Relief Valve
✓	7.4	Regulator
NA	7.5	Filter-Compressor
NA	7.6	Drain Storage Tank

✔	Item	Description
	8	Vacuum Pump Assembly
NA	8.1	Hoses and Couplings
NA	8.2	Pump
NA	8.3	Oil Level
	9	Lamp House Assembly
✓	9.1	Housing
✓	9.2	Filter (Photographic)
✓	9.3	Light Leaks
✓	9.4	Lamp House Blower
	10	Immersion System
✓	10.1	Ejectors
✓	10.2	Hoses and Couplings
✓	10.3	Blower
✓	10.4	Fluid Level
✓	11	Lamp House Control
✓	12	Analyzer
	13	Photo Check
	13.1	Resolution
	13.2	Uniformity
	14	General Inspection

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25X1

Monthly Report

PAR 251
30 Jun 69

SUBJECT: Image Enhancement Studies Using Ring Smear Techniques

TASK/PROBLEM

1. Design, fabricate, and mount a ring smear device on the BPE breadboard enlarger, and using this equipment:

a. Develop equipment necessary to hold enlarged product and ring smear mask in registration during subsequent printing.

b. Perform image enhancement on selected mission originals.

c. Train selected contractor and customer exploitation personnel in ring smear enhancement techniques.

d. Study operating parameters of ring smear technique with the goal of improving the method.

DISCUSSION

2. Introduction. At the customer's request, PAR 251, which was originally submitted for approval in November 1968, was resubmitted for consideration on 9 May 1969 via contractor message 2396. Approval to proceed was received in customer message 3981 dated 9 June 1969. Effort on this PAR is scheduled to be completed 9 June 1970.

3. Progress and Current Status. Effort to date has consisted of preliminary planning, mainly in the area of establishing specifications for the ring smear plate.

PLANNED ACTIVITY

4. Meet with the customer project engineer to discuss the proposed plan of effort.

5. Complete the ring smear plate specifications and begin design effort.

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25X1 [redacted]

Monthly Report

PAR 252
30 Jun 69

SUBJECT: Improvement of the Precision Enlarger Fluid Injection System

TASK/PROBLEM

1. Develop, fabricate, test, and evaluate an improved fluid-injection-system breadboard that will be compatible with the fluid-gate requirements of both the [redacted] Precision Enlarger (BPE) and 10-20-40X Precision Enlargers.

25X1

DISCUSSION

2. This PAR was authorized by message number 3981 on 9 June 1969.

3. Preliminary planning is under way, and active work is scheduled to begin in July 1969.

PLANNED ACTIVITY

4. Begin design effort.

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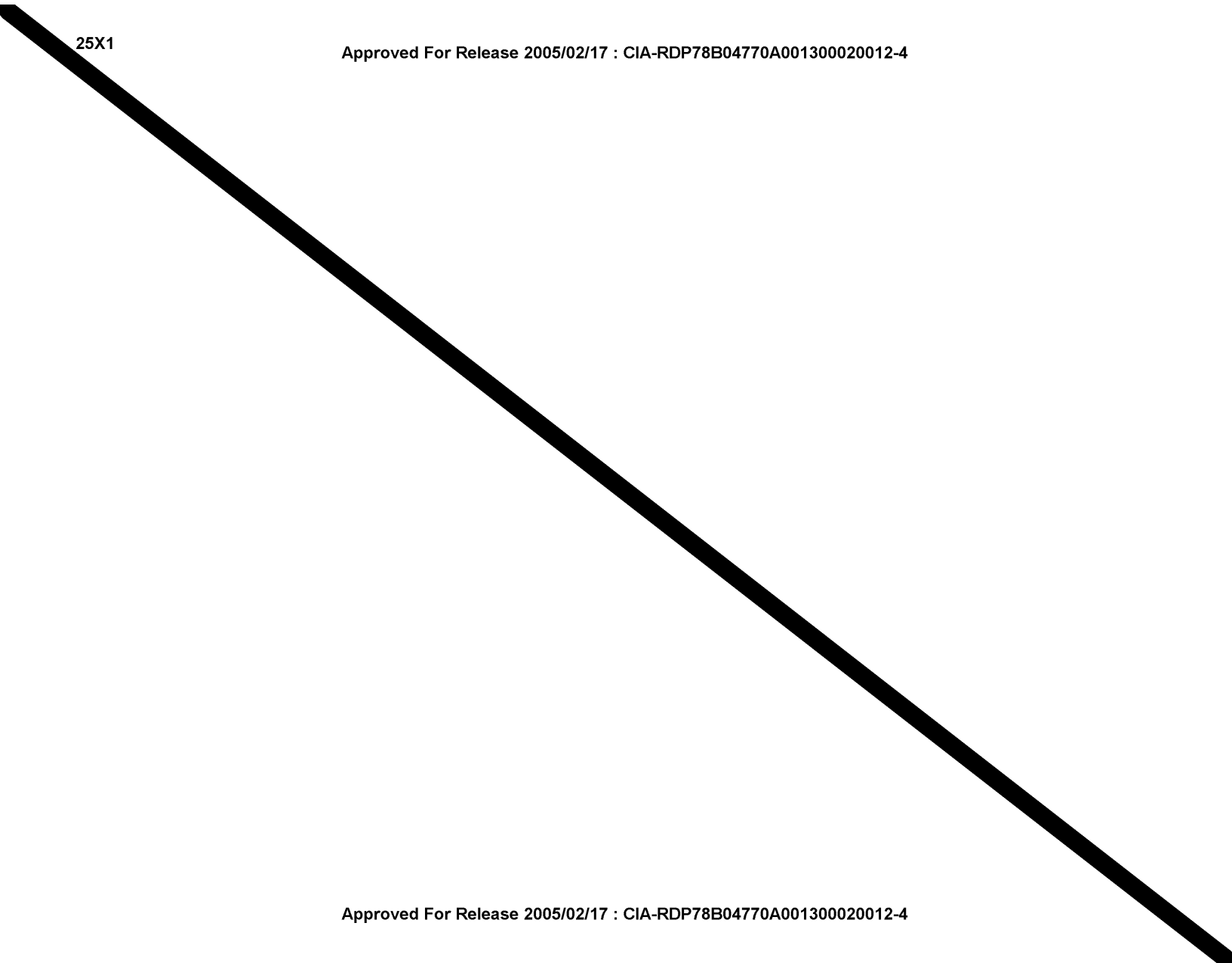

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